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Circle & Dono



Manager

U. S. Coast Guard Marine Safety Laboratory 1082 Shennecossett Road

Groton, CT 06340-6094

Phone Number: (860) 441-2645

Facsimile Number: (860) 441-2641 CG E-Mail: Admin/COIL or Internet:

SW3: MSL@rdc.uscg.mil

SW2: MSL@rdc.uscg.mil/maillant

If transmission is incomplete, please call: (860) 441-2645

Date: 9/15/98

From: Po s Rogers

To: MR. LE

At Fax Number: 808-522-9270

Number of Pages (including cover sheet): 26

Subject: CASE # 98-281/282

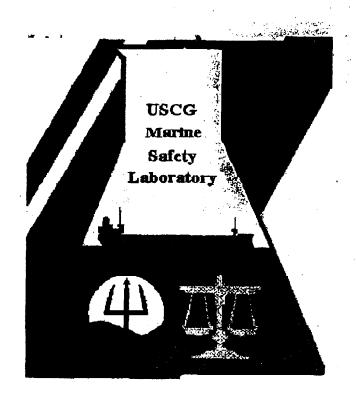
Remarks:

CASE WILL BE REDER ON 16 SEP W.

Oil Sample Analysis Report

MSO Honolulu Case Number MC98011773

Marine Safety Laboratory
Case Number 98-281 / 98-282



UNITED STATES COAST GUARD MARINE SAFETY LABORATORY OIL IDENTIFICATION EABOR ORY

OIL SPILL IDENTIFICATION REPORT

LABORATORY CASE NUMBER: 98-281/98-282

REQUESTOR: MSO HONOLULU
UNIT CASE NUMBER: MC98011773

RECEIVED: 10SEP98 **VIA:** FEDERAL EXPRESS (# 4416905894) **RECEIVED:** 11SEP98 **VIA:** FEDERAL EXPRESS (# 4416905905)

NUMBER OF SAMPLES: SEVENTEEN (17)

LAB NO. OF SPILLS: 98-281-1,2,3,4,7 AND 8 AND 98-282-1,2,3,5,6 AND 9

LAB NO. OF SUSPECTS: 98-281-6

LAB NO. OF NON-OILED BIRD FEATHERS: 98-281-5 AND 98-282-4,7 AND 8

ANALYSIS METHODS:

GAS CHROMATOGRAPHY (GC)
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)

SPECIAL INSTRUCTIONS:

1. Compare the samples submitted as one case.

RESULTS:

- 1. Samples 98-281-1,2,3,4,7 and 8 and 98-282-1,2,3,5,6 and 9 were specified to be representative of spilled oil. Analysis indicates:
 - a. Samples 98-281-1,2,3,7 and 8 and 98-282-1,2,3 and 6 contain an intermediate fuel oil, which has undergone varying degrees of moderate to severe evaporative weathering. The samples contain varying degrees of non-petroleum contamination. However, GC/MS analysis was used to avoid the interference from contaminates and revealed that the characteristics of the petroleum oil are similar for all samples. Of these samples, sample 98-281-7 is the least weathered and was free of contamination.
 - b. Samples 98-282-5 and 9 contain only slight traces of petroleum oil. Results for these samples are of no value for comparison purposes.
- 2. Suspected source sample 98-281-6 is observed to contain a weathered intermediate fuel oil with characteristics similar to those of the spilled oil samples. Differences noted were consistent with evaporative weathering and contamination of the spilled oil. It should be noted that spill sample 98-281-7 is less evaporatively weathered than sample 98-281-6.
- 3. Samples 98-281-5 and 98-282-4,7 and 8 contain bird oil, but no detectable quantity of petroleum oil was observed.

CONTINUATION OF OIL SPILL IDENTIFICATION REPORT 98-281/98-282

CONCLUSIONS:

- Spill samples 98-281-1,2,3,4,7 and 8 and spill samples 98-282-1,2,3 and 6 and source sample 98-281-6 are derived from a common source. No other source of petroleum oil was observed in any sample.
- 2. Samples 98-282-5 and 9 contain only slight traces of petroleum oil. Results for these samples are inconclusive because of the insufficient quantity of petroleum oil.
- 3. Samples 98-281-5 and 98-282-4,7 and 8 contain no detectable quantity of petroleum oil. Non-petroleum oil with similar characteristics was observed in the oiled bird feather samples.

MS Dendorth - Snown

United States Coast Guard Marine Safety Laboratory

Sample Check-in Log, MSL Case Number:

98-281

Requestor:

MSO Honolulu

Unit Case Number: MC98011773

Federal Project Number

Delivery Method: FEDERAL EXPRESS

Received Date:

10-Sep-98

Delivery Number: 4416905894

Priority:

No

Rush:

Yes

Comparison:

No

Lab Number 98-281	Sample Descriptions from Sample Jars	Spill	Source
1 m	1 TAR PATTY FROM ANHOLA BEACH PARK KAUAI 05 SEP 98 0940	xx	
12 W	2 TAR PATTY FROM ALIOMANU BAY KAUAI 05 SEP 98 1000	ХХ	
$\sqrt{3} M$	3 BIRD FEATHER FROM KAUAI 05 SEP 98 1130	XX	
4 W	1 OILED BIRD FEATHERS 29 AUG 98 1100	хх	
5	2 NON-OILED BIRD FEATHERS 29 AUG98 1100	xx	
6 10	3 TESORO PIPE LINE 29 AUG 98 1100		xx
7 V	4 TESORO SPILL HULL OF CG PATROL BOAT 25 AUG 98 0430	XX	
8 W	5 ORSV CLEAN ISLAND OIL SPILL RESPONSE BOAT 29 AUG 98 1600	xx	
9			
10			

Remarks: SECOND AIRBILL 4416905802 AND CASE NUMBER MC98011128

Samples checked in by:

Supervisor of Analysis: .

433 Ala Moana Blvd Tomblutu HI 96813 4909 taff Symbol: Port Opa Phone: (808) 522-8260

16460 3 8 8 SEP 98

From: Commanding Officer, Marine Safety Office Honolulu, HI To: Commanding Officer, USCG Marine Safety Laboratories

Subj: REQUEST FOR OIL SAMPLE ANALYSIS

- 1. Request analysis of the 3 samples listed on attached Chain of Custody Record to assist in our investigation of spill case MC98011773.
- 2. This is a request for rush analysis.
- 3. Questions concerning this case should be directed to FNMK Kilgore at (808)522-8260.
- 4. The spill samples were collected from one adult red footed booby on the Island Kausi, and two samples of tar patties from the island of Kausi.
- 5. The McGill sheen sampling net was not used.
- 6. Estimate one barrel spilled, clean-up conducted.
- 7. Weather Conditions at time of Sampling: bright sun, 80 degrees, light and variable winds.
- 8. Spill did not involve seepage of oil through the soil.
- 9. There is sand mixed with samples one and two, and number three is a feather in the product.
- 10. All samples involved in this case are being sent to the laboratory.
- 11. Identification of pollution type and check to MC98011128.

By direction

UNITED STATES COAST GUARD CHAIN OF CUSTODY 1. . CORD\$

SUPERVISOR MARINE SAFETY OFFICE 433 ALA MOANA BLVD. PIER 4 HONOLULU HAWAII 96813

100	311	SOURCE	SAMPLE NO.		DES	CRIPTION OF	SAMPLES	FOR CASE# MC	
X				TAR A	My FROM	AN HOLA	BEAUIT	BARK RAWA	
		•	2	TAR PA	TTY FROM	ALTO MANO	v BAV,	KAVA	
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	Nagara A								
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		PERSO	ON ASSUMING RE	SPONSI	BILITY FOR	SAMPLES		TIME/DATE	
F	VMK	KIL	672F 1KC	4				DK Seps 48	
3. f. · · ·	MPLE MBER	(JISHED BY: KILGRA	DATE/	RECEIVED	BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY	
	3	ISCG		26540 K K22	TROY FRE	HAMMER	1418 1418	LAB MALYSTS	
i	MPLE MBER	RELING	JISHED BY:	DATE/ TIME	RECEIVED	BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY	
	MPLE		JISHED BY:	DATE/	RECEIVED	BY:	DATE/	REASON FOR CHANGE	

TIME

OF CUSTODY

TIME

ביטיר ביה כי שבי בישר דיטיי

NUMBER





433 Ala Moana Blvd. ionolulu, HI 96813-4909 Staff Symbol: Port Ops Phone: (808) 522-8260

16460

Commanding Officer, Marine Safety Office Honolulu, HI Commanding Officer, USCG Marine Safety Laboratories From: To:

Subj: REQUEST FOR OIL SAMPLE ANALYSIS

- Request analysis of the 5 samples listed on attached Chain of Custody Record to assist in our civil penalty case investigation of Tesoro IFO-380 oil spill, case MC9801128.
- 2. This is a request for normal (3-4 days) analysis.
- Questions concerning this case should be directed to SNMST Tackett at (808)522-8260.
- 4. The feather samples were collected from one red footed boobie bird by Sea Life Park Hawaii. The Tesoro spill samples were collected from the Tesoro pipeline, hull of a Coast Guard Honolulu patrol boat and OSRV CLEAN ISLANDS.
- 5. The McGill sheen sampling net was not used.
- Estimated 10 barrels spilled, clean-up conducted.
- Weather Conditions at time of Sampling: bright sun, 80 degrees, light and variable winds.
- 8. Spill did not involve seepage of oil through the soil.
- 9. There was unknown organic matter from waterfoul in the area. Water polluted with possible multiple unknown sources.
- 10. Chain of custody started at USCG MSO Honolulu and from OSRV CLEAN ISLANDS.

By direction

UNITED STATES COAST GUARD CHAIN OF CUSTODY R_JORD\$

SUPERVISOR MARINE SAFETY OFFICE 433 ALA MOANA BLVD. PIER 4 HONOLULU HAWAII 96813

SPILL	SOURCE	SAMPLE NO.	DESCRIPTION OF SAMPLES FOR CASE# MC
X		1	OILED FEATHERS
X	-	\boldsymbol{z}	NON - OILED FEATHERS
	X	3	TESORO PIPELINE
	X	4	TESORO SPILL, HULL OF CG HONDLULU PATROL BOAT.
	X	5	ORSV CLEAN ISLAND OIL SPILL RESPONSE BOAT

	PERSON ASSUMING RI		TIME/DATE 35EP98 1300		
SAMPLE NUMBER	MELINQUISHED BY: MIS STEMARY SET STEMARY	DATE/ TIME / 035/290	TROY FREIMANIER MGT 2 AT MGC	DATE/ TIME 1946/48 (+10	REASON FOR CHANGE OF CUSTODY LAB ANACYSIS
SAMPLE NUMBER	RELINQUISHED BY:	DATE/ TIME	RECEIVED BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY
SAMPLE NUMBER	RELINQUISHED BY:	DATE/ TIME	RECEIVED BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY

UNITED STATES COAST GUARD CHAIN OF CUSTODY RLJORD\$

SUPERVISOR MARINE SAFETY OFFICE 433 ALA MOANA BLVD. PIER 4 HONOLULU HAWAII 96813

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SPILL	SOURCE	SAMPLE NO.	DESCRIPTION OF SAMPLES FOR CASE# MC	
7		#1	OILED FEATHERS	
	-	#2	OILED FEATHERS HOW-OILED FEATHERS	
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	PERSON ASSUMING RE		TIME/DATE		
SI	NMST Tackett	12:40/3 paug98			
SAMPLE NUMBER	RELINQUISHED BY:	DATE/ TIME 364498	RECEIVED BY: MIS 3 STEWART	DATE/ TIME 302048	REASON FOR CHANGE OF CUSTODY
1	usca spust Tackett	12-140	1 Telleran	1240	LAB qualysis
SAMPLE NUMBER	RELINQUISHED BY:	DATE/ TIME	RECEIVED BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY
SAMPLE NUMBER	RELINQUISHED BY:	DATE/ TIME	RECEIVED BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY

בים הבו שבר זם ישם נגושג

CHAIN OF CUSTODY RECURD

Commanding USCG Marine	Officer : Safety Office					The state of the s					
SPILL	SOURCE	SOURCE SAMPLE = DESCRIPTION OF SAMPLES FOR CASE #									
•	×	3	TE	SORO PIPEL	INE,						
			A STATE OF THE STA								
SAMPLE NUMBERS	RELINQUISH BY BMJ J. L. Dent	į	TIME 1998	RECEIVED BY MKSSTEWART	DATE/TIME	REASON FOR CHANGE SEND TO COIL					
SAMPLE NUMBERS	RELINQUISH BY	IED DATE	TIME	RECEIVED BY	DATE/TIME	REASON FOR CHANGE					
SAMPLE NUMBERS	RELINQUISH BY	IED DATE	TIME	RECEIVED BY	DATE/TIME	REASON FOR CHANGE					
SAMPLE NUMBERS	RELINQUISE BY	TED DATE	TIME	RECEIVED BY	DATE/TIME	REASON FOR CHANGE					

CHAIN OF CUSTODY RECURD

Commanding Officer
USCG Marine Safety Office

SPILL	SOURCE SA	MPLE = DESC	RIPTION OF SAMPL	ES FOR CASE #	Mc 9801128
	X	U TES	ORO SPILL, I ROL DOAT.	AULL OF C	G HONOLULU
SAMPLE NUMBERS	RELINQUISHED BY	DATETIME 1250700W AV 48	RECEIVED MK3 STEWAR	DATE/TIME 25 Ø740 ~ AUG 98	REASON FOR CHANGE Send TO COIL
SAMPLE NUMBERS	RELINQUISHED BY	DATE TIME	RECEIVED BY	DATE/TIME	REASON FOR CHANGE
SAMPLE NUMBERS	RELINQUISHED BY	DATETIME	RECEIVED BY	DATE/TIME	REASON FOR CHANGE
SAMPLI NUMBERS	RELINQUISHED BY	DATETIME	RECEIVED BY	DATE/TIME	REASON FOR CHANGE

UNITED STATES COAST QUARD CHAIN OF USTODY REJORD\$

SUPERVISOR

			433 AI HON	RINE SAFETY OFFICE LA MOANA BLVD. PIE NOLULU HAWAII 9681	E R:4 3	
SPILL	SOURCE	SAMPLE NO.	्र •्रहेन्स	DESCRIPTION OF	SAMPLES	FOR CASE# MC
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·	PERSO	NASSUMING RI	ESPONSI	BILITY FOR SAMPLES		8/29/98 15/6
SAMPLE NUMBER		DENTRY	DATE/ TIME 1600 29Avi78	RECEIVED BY: MKS STEWNEY Sold Market	DATE/ TIME /WGJ 29AUC98	REASON FOR CHANGE OF CUSTODY LAB ANALYSIS
SAMPLE NUMBER	. 1	JISHED BY:	DATE/ TIME 300/58	RECEIVED BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY LAB ANALYSIS
SAMPLE NUMBER		JISHED BY:	DATĖ/ TIME	RECEIVED BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY

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GW-Groundwater SO-Soil PE-Petroleum WW-Wastewater

LOncord, CA 94518 (510) 825-3894

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UNITED STATE COAST GUARD MARINE SAFETY LABORATORY IDENTIFICATION LABORATO.

OIL SPILL IDENTIFICATION REPORT

LABORATORY CASE NUMBER: 98-281/98-282

REQUESTOR: MSO HONOLULU UNIT CASE NUMBER: MC98011773

RECEIVED: 10SEP98 VIA: FEDERAL EXPRESS (# 4416905894) **RECEIVED:** 11SEP98 VIA: FEDERAL EXPRESS (# 4416905905)

NUMBER OF SAMPLES: SEVENTEEN (17)

LAB NO. OF SPILLS: 98-281-1,2,3,4,7 AND 8 AND 98-282-1,2,3,5,6 AND 9

LAB NO. OF SUSPECTS: 98-281-6

LAB NO. OF NON-OILED BIRD FEATHERS: 98-281-5 AND 98-282-4,7 AND 8

ANALYSIS METHODS:

GAS CHROMATOGRAPHY (GC)
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)

SPECIAL INSTRUCTIONS:

1. Compare the samples submitted as one case.

RESULTS:

- 1. Samples 98-281-1,2,3,4,7 and 8 and 98-282-1,2,3,5,6 and 9 were specified to be representative of spilled oil. Analysis indicates:
 - a. Samples 98-281-1,2,3,7 and 8 and 98-282-1,2,3 and 6 contain an intermediate fuel oil, which has undergone varying degrees of moderate to severe evaporative weathering. The samples contain varying degrees of non-petroleum contamination. However, GC/MS analysis was used to avoid the interference from contaminates and revealed that the characteristics of the petroleum oil are similar for all samples. Of these samples, sample 98-281-7 is the least weathered and was free of contamination.
 - b. Samples 98-282-5 and 9 contain only slight traces of petroleum oil. Results for these samples are of no value for comparison purposes.
- 2. Suspected source sample 98-281-6 is observed to contain a weathered intermediate fuel oil with characteristics similar to those of the spilled oil samples. Differences noted were consistent with evaporative weathering and contamination of the spilled oil. It should be noted that spill sample 98-281-7 is less evaporatively weathered than sample 98-281-6.
- 3. Samples 98-281-5 and 98-282-4,7 and 8 contain bird oil, but no detectable quantity of petroleum oil was observed.

CONTINUATION C OIL SPILL IDENTIFICATION REPORT 98-281/98-282.

CONCLUSIONS:

- 1. Spill samples 98-281-1,2,3,4,7 and 8 and spill samples 98-282-1,2,3 and 6 and source sample 98-281-6 are derived from a common source. No other source of petroleum oil was observed in any sample.
- 2. Samples 98-282-5 and 9 contain only slight traces of petroleum oil. Results for these samples are inconclusive because of the insufficient quantity of petroleum oil.
- 3. Samples 98-281-5 and 98-282-4,7 and 8 contain no detectable quantity of petroleum oil. Non-petroleum oil with similar characteristics was observed in the oiled bird feather samples.

MS Hudarl- Snoth

SUPERVISOR OF ANALYSIS MARTHA HENDRICK-SMITH, Ph. D. DATE: 14SEP98
Chemist

PO:07 00 07 .70 00 70:09

United States Coast Guard Marine Safety Laboratory

Sample Check-in Log, MSL Case Number:

98-282

Requestor:

MSO Honolulu

Unit Case Number: MC98011773

Federal Project Number

Delivery Method: FEDERAL EXPRESS

Received Date:

11-Sep-98

Delivery Number: 4416905905

Priority:

No

Rush:

Yes

Comparison:

Yes

Lab Numb 98-282	Lab Number Sample Descriptions from Sample Jars 98-282		Spill	Source		
1 1	OILED RED FOOTED BOOBY FEATHER WAILUA BEACH NEAR GOLF COURSE 05 SEP 98					
/ 2 Y	√ 2	RED POOTED BOOBY FEATHER OILED BELOW CRELLER HILL	06 SEP 98	xx		
✓ 3 ∀	√ 3	O'LED RED FOOTED BOOBY FEATHER LARSON'S BEACH	06 SEP 98	xx		
4 200	2	CLEAN BIRD FEATHERS SEA LIFE PARK	07 SEP 98	xx		
5 📆	2	OILED BIRD FEATHERS SEA LIFE PARK	07 SPE 98	xx		
6 Y	∧ 4	OILED BIRD FEATHER SEA LIFE PARK	08 SEP 98	xx	,	
7 7	ic 4	CLEAN BIRD FEATHERS SEA LIFE PARK	08 SEP 98	xx		
873	3	CLEAN HIRD FEATHERS SEA LIFE PARK	07 SEP 98	xx		
/ G.	3	OILED BIRD FEATHERS SEA LIFE PARK	07 SEP 98	xx		
10						

Remarks: COMPARE WITH MSL CASE 98-281 THE SPELLING OF WORD IN 98-282-2 CRELLER IS NOT CLEAR ON SAMPLE LABEL

Samples checked in by:		Date:	11 TEP98	
Sample Custodian:		Date:	1175/98	
Supervisor of Analysis:	Marthad Hendrich In	Date:	15 SEP	9F

Page 1 of 1

76 July 81 96813-4909 Ji Soribol: Port Ops Phone: (808) 522-8260

Commanding Officer, Marine Safety Office Honolulu, HI From: Commanding Officer, USCG Marine Safety Laboratories To:

subj: REQUEST FOR OIL SAMPLE ANALYSIS

- 1. Request analysis of the 6 samples listed on attached Chain of Custody Record to assist in our investigation of spill case MC98011778.

 2. This is a request for rush analysis.
- This is a request for rush analysis.
- To Karel 3. Questions concerning this case should indirected to FNMK Kilgore at (808)522-8260.
- 4. The spill samples were collected from three adult Red Footed Boobies on the Island, Kauai.

- The McGill sheen sampling net was not used.
 Estimate one barrel spilled, clean-up was conducted.
 Weather Conditions at time of Sampling: bright sun, 80 degrees, light and variable winds. degrees, light and variable winds.

 8. Spill did not involve seepage of oil through the soil.
- 9. There were no unknown organic matter from water foul in the area. Water was not polluted with possible multiple unknown
- 10. All samples involved in this case are being sent to the laboratory.
- 11. Identification of pollution type and check to MC98011128

By direction

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UNITED STATES COAST GUARD CHAIN OF CUSTORY REJORD\$



SUPERVISOR MARINE SAFETY OFFICE 433 ALA MOANA BLVD. PIER 4 HONOLULU HAWAII 96813

SPILL	SOURCE	SAMPLE NO.	DESCRIPTION OF SAMPLES FOR CASE# MC 980 / 1793
2		2	Clean Bird Feathers, Sea 1. E perol
X	·	2	OILAN BIRD FROTOS, Sea like port
	•	3	Clean Bird Feathers , See life part
X	·	3	ofted Bird Feathers, sealine port
		4	door Bird Feathers See life poll
1		4	athed Bird feathers see life per

AMK	PERSON ASSUMING RE	TIME/DATE 1025 959098			
SAMPLE NUMBER	RELINQUISHED BY:	DATE/ TIME Separ	TROY PREIHAMER MST 2 AT 1956	DATE/ TIME It-7EP8 1055	REASON FOR CHANGE OF CUSTODY
SAMPLE NUMBER	RELINQUISHED BY:	DATE/ TIME	RECEIVED BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY
SAMPLE NUMBER	RELINQUISHED BY:	DATE/ TIME	RECEIVED BY:	DATE/ TIME	REASON FOR CHANGE OF CUSTODY

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Commanding Officer Marine Safety Office

433 Aia Moana Bivd.

'nolulu, HI 96813-4909

_iff Symbol: Fort Ops
Phone: (808) 522-8260



16460 9 SEP 98

From: Commanding Officer, Marine Safety Office Honolulu, HI To: Commanding Officer, USCG Marine Safety Laboratories

Subj: REQUEST FOR OIL SAMPLE ANALYSIS

- 1. Request analysis of the 3 samples listed on attached Chain of Custody Record to assist in our investigation of spill case MC98011779.
- 2. This is a request for rush analysis.
- 3. Questions concerning this case should be directed to FNMK-Kilgore at (808)522-8260.
- 4. The spill samples were collected from three adult Red Footed Boobies on the Island, Kauai.
- 5. The McGill sheen sampling net was not used.
- 6. Estimate one barrel spilled, clean-up was conducted.
- 7. Weather Conditions at time of Sampling: bright sun, 80 degrees, light and variable winds.
- 8. Spill did not involve seepage of oil through the soil.
- There were no unknown organic matter from water foul in the area. Water was not polluted with possible multiple unknown sources.
- 10. All samples involved in this case are being sent to the laboratory.
- 11. Identification of pollution type and check to MC98011128.

By direction

UNITED STATES COAST GUARD CHAIN OF CUSTODY RECORDS

SUPERVISOR MARINE SAFETY OFFICE 433 ALA MOANA BLVD. PIER 4 HONOLULU HAWAII 96813

			HON	IOLULU HAWAII 9681:	3		
SPILL	SOURCE	SAMPLE NO.	DESCRIPTION OF SAMPLES FOR CASE# M0980/1793				
X		1.	DILE	Bod Rad Fooded Boo	by Feat	mor, haila Boach	
X	•	2.	Red Footed Bods Frother, Othed				
X		3	OILe	I Red Foot De	יטא ע דיני	Acr, Lorsons, Boach	
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PERSON ASSUMING RESPONSIBILITY F				BILITY FOR SAMPLES	TY FOR SAMPLES TIME/DATE		
FN	MK K	DLGORE	(E Ca	CUARD	D8 15 950p 98		
SAMPLE			DATE/ TIME	TIME		REASON FOR CHANGE OF CUSTODY	
1-3		VSC6	9590 98 DUK	TROY FREINAMER MYTZ ATMSL	1955 1955	LAB ANDIXIS	
				1		,	

SAMPLE | RELINQUISHED BY: RECEIVED BY: DATE/ **REASON FOR CHANGE** DATE/ TIME NUMBER TIME OF CUSTODY RECEIVED BY: DATE/ **REASON FOR CHANGE** SAMPLE RELINQUISHED BY: DATE/ TIME OF CUSTODY NUMBER TIME

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MARINE SAFETY LABORATORIES OIL IDENTIFICATION LABORAT(

QUALITY CONTROL SHEET

MSL CASE NUMBER: 98-282 DATE PREPA	RED: 115E	P98				
A Quality Control (QC) sample was analyzed along with the samples of	the case.					
The Quality Control (QC) sample is a duplicate of sample		- ·				
Due to limited sample quantity in all samples of the case, reference MSL oil library was used for the Quality Control (QC) and Quality	control Mate	from the front the first from the fi				
Infrared Spectroscopy was used as a screening method before final sample was available during IR screening.	sample prepar	ation. No QC				
ANALYTICAL METHODS						
	SAT	N/A				
INFRARED SPECTROSCOPY (IR)		<u> </u>				
GAS CHROMATOGRAPHY (GC)	_ X					
FLUORESCENCE SPECTROSCOPY (FL)		X				
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC-MS)	X					
The data and conclusions for the QC and QCM samples were identical:	yes 🔨	NO				
Comments:	110					
Note-data in case	frec ?	\$ <i>1</i>				
Note-data in case for compantion case	98-d	o / ,				

SUPERVISOR OF ANALYSIS: MS Hendrik Ingh DATE: 15 Syp 98
Revised 2/96

United States Coast Guard Marine Safety Laboratory

Oil Spill Identification Analyses Cost Recovery Documentation

Laboratory Case Number: 98-281/98-282

Requestor: MSO Honolulu

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Unit Case Number: MC98011773

Number of Samples: 17

Cost Per Sample Prepared: \$20.00

Total Costs of Sample Preparation: \$340.00

Number of Analyses: 46

Cost Per Sample Prepared: \$86.00

Total Costs for Analysis: \$3,956.00

TOTAL COSTS: \$4,296.00

This documentation is provided for purposes of Phase IV - Documentation and Cost Recovery under the National Oil and Hazardous Substances Pollution

Contingency Plan (40 CFR Part 300)

Signature: MS Hendrich Snfth D

Date: 15-Sep-98